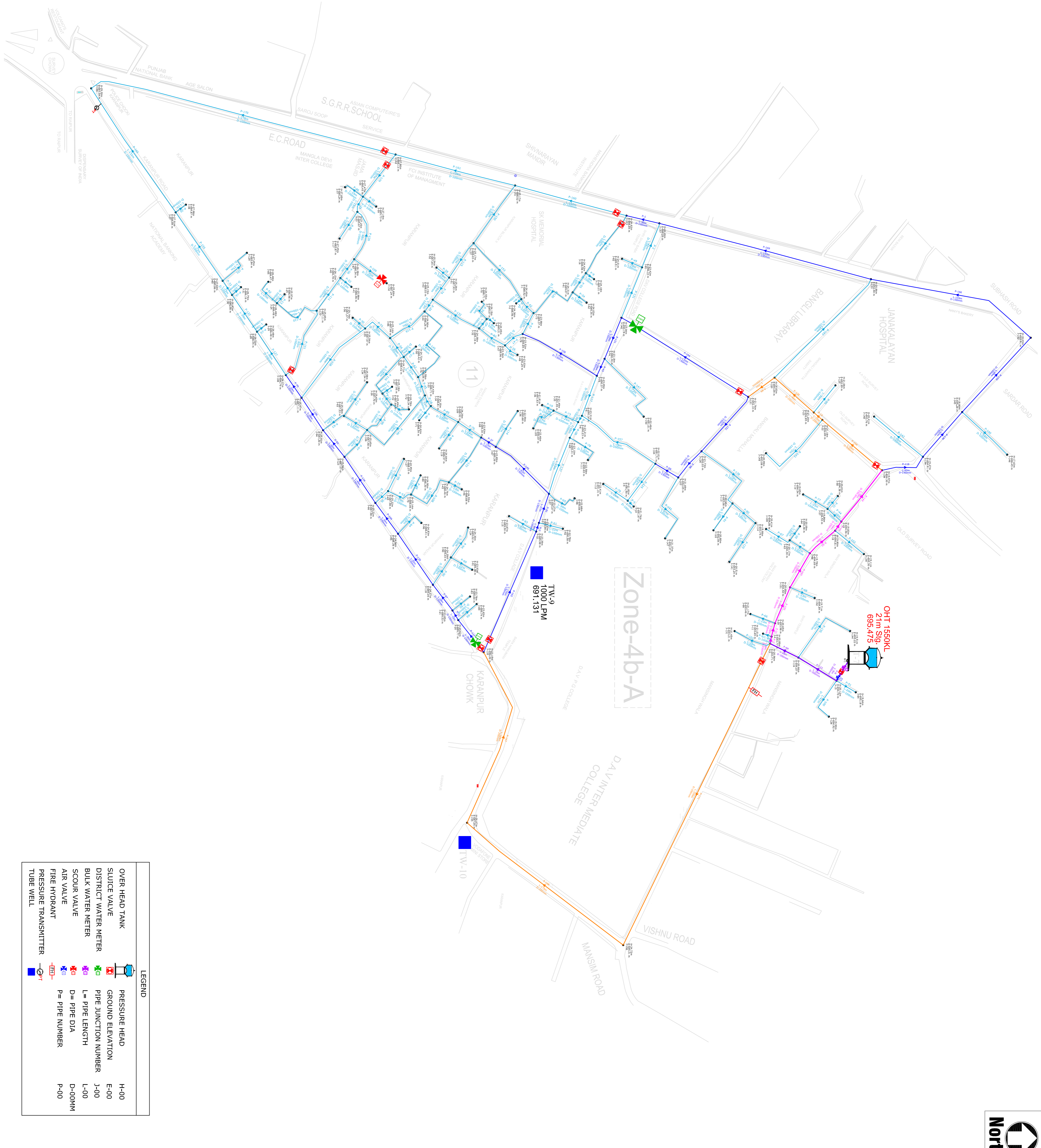


Pipe Details :-

100 mm dia pipe
150 mm dia pipe
200 mm dia pipe
250 mm dia pipe
300 mm dia pipe

Detail of Water Zone-4b (Sub Zone-A)

Sl No	Pipe No	From Node To Node	Type of Valve	Pipe Length (m)	Dia of Pipe (mm)	Description
1	FW	81	255	800.0	300	Water Valve
2	FW	81	81	152.0	300	Water Valve
3	FW	81	81	152.0	300	Water Valve
4	FW17	33	1265	794	200	Fire Hydrant
5	FW17	33	1265	794	200	Fire Hydrant
6	FW24	222	2358	523	200	Water Valve
7	FW24	222	1120	600.0	150	Water Valve
8	FW24	1221	1120	600.0	150	Water Valve
9	FW26	116	1431	513	100	Water Valve
10	FW26	1248	1551	500	100	Water Valve
11	FW28	1221	2358	523	200	Water Valve
12	FW28	1221	1120	600.0	150	Water Valve
13	FW28	1221	1120	600.0	150	Water Valve
14	FW29	427	1313	543	100	Water Valve
15	FW29	1208	1313	543	100	Water Valve
16	FW28	124	2342	523	200	Water Valve
17	FW28	127	1244	523	200	Water Valve



	OVER HEAD TANK	H-00
	SLUICE VALVE	E-00
	DISTRICT WATER METER	J-00
	BULK WATER METER	L-00
	AIR VALVE	D-00MM
	FIRE HYDRANT	P-00
	PRESSURE TRANSMITTER	
	TUBE WELL	
	PRESSURE HEAD	
	GROUND ELEVATION	
	PIPE JUNCTION NUMBER	
	L= PIPE LENGTH	
	D= PIPE DIA	
	P= PIPE NUMBER	

Project:

WATER SUPPLY OF ABD AREA OF DEHRADUN SMART CITY UNDER SMART CITY MISSION DEHRADUN

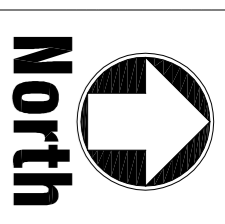
Drawing Title: LAYOUT PLAN OF WATER SUPPLY DISTRIBUTION NETWORK (Sub Zone-4b-A)

Project Management Consultant:

almondz **REPL** **JUL**

Almondz Engineering & Construction Pvt. Ltd. (A/S) 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

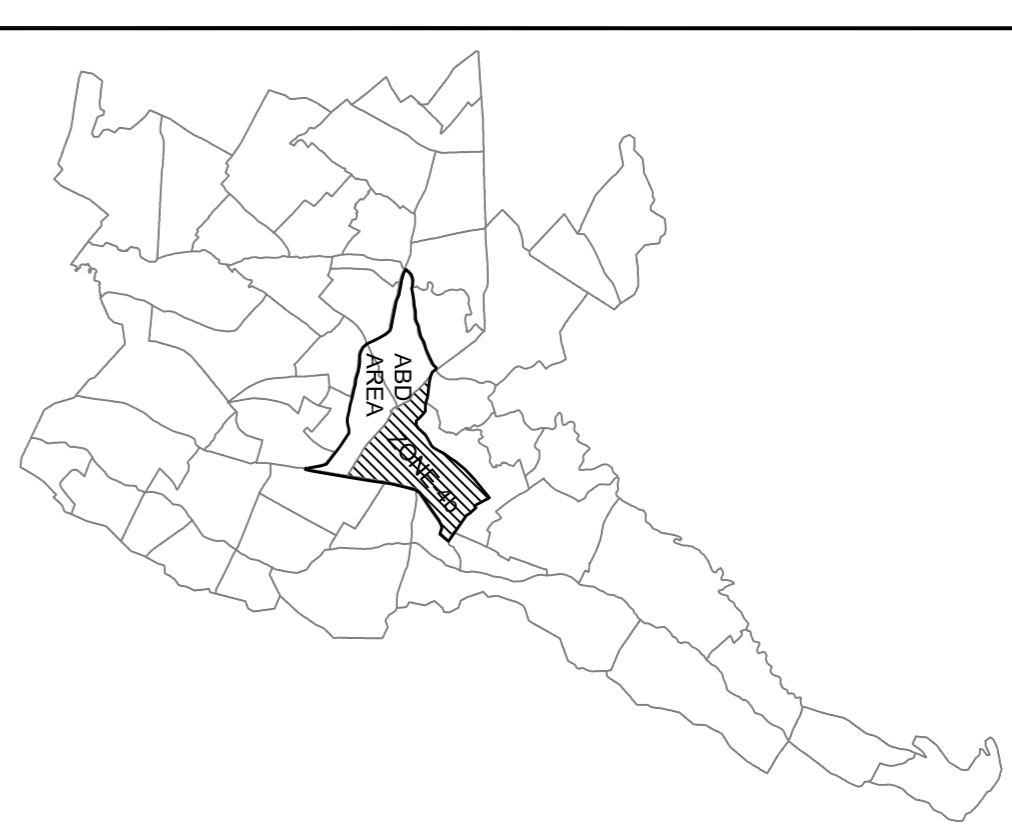
Drawn By:	Jyoti Singh	Checked By:	Ravindra Kumar
Engg. Check:	A. Kumbh	Recommended:	Small Kumar
Scale:	1:1	Stamp:	DRS
Drawing Number:	DSCL-PMC-AGSL-REPL-MSZ4b-A-01		



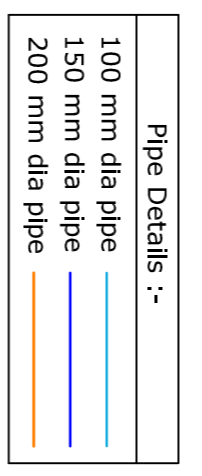
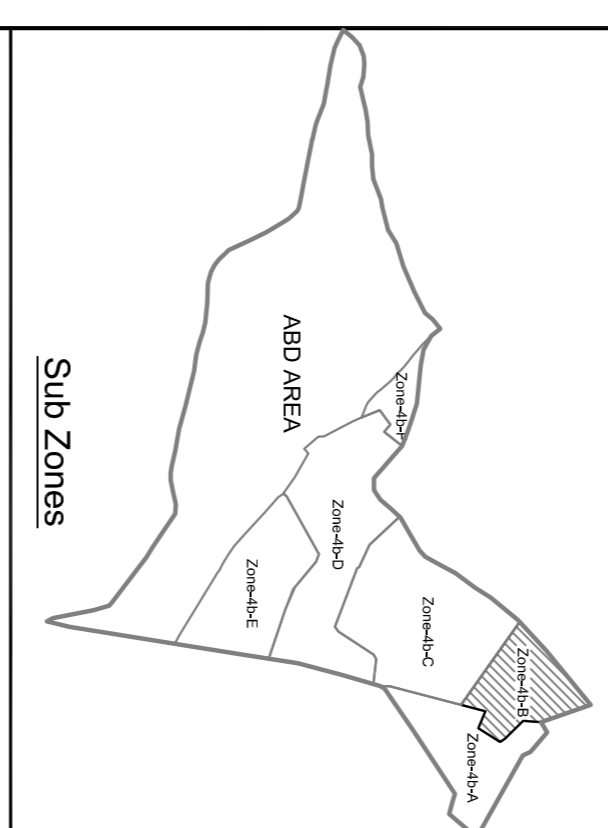
North

ABD Area based Development

Notes



Key to symbols



LEGEND

Detail of Water Zone-4b (Sub Zone-B)

Sl. No	Pipe No	From Node	To Node	Type of Valve	Pipe Length (m)	DN of Pipe (mm)	DN of Valve (mm)	Description
1	P-1	N1	N2	None	200	200	200	Water Mtr
2	P-2	N2	N3	None	200	200	200	Water Mtr
3	P-3	N3	N4	None	200	200	200	Water Mtr
4	P-4	N4	N5	None	200	200	200	Water Mtr
5	P-5	N5	N6	None	200	200	200	Water Mtr
6	P-6	N6	N7	None	200	200	200	Water Mtr
7	P-7	N7	N8	None	200	200	200	Water Mtr
8	P-8	N8	N9	None	200	200	200	Water Mtr
9	P-9	N9	N10	None	200	200	200	Water Mtr
10	P-10	N10	N11	None	200	200	200	Water Mtr
11	P-11	N11	N12	None	200	200	200	Water Mtr
12	P-12	N12	N13	None	200	200	200	Water Mtr
13	P-13	N13	N14	None	200	200	200	Water Mtr

RD	May-2019	For DPR	
Rev	Date	Description	Remarks

Client : **DEHRADUN SMART CITY LIMITED**

Project : **WATER SUPPLY OF ABD AREA OF DEHRADUN SMART CITY UNDER SMART CITY MISSION DEHRADUN**

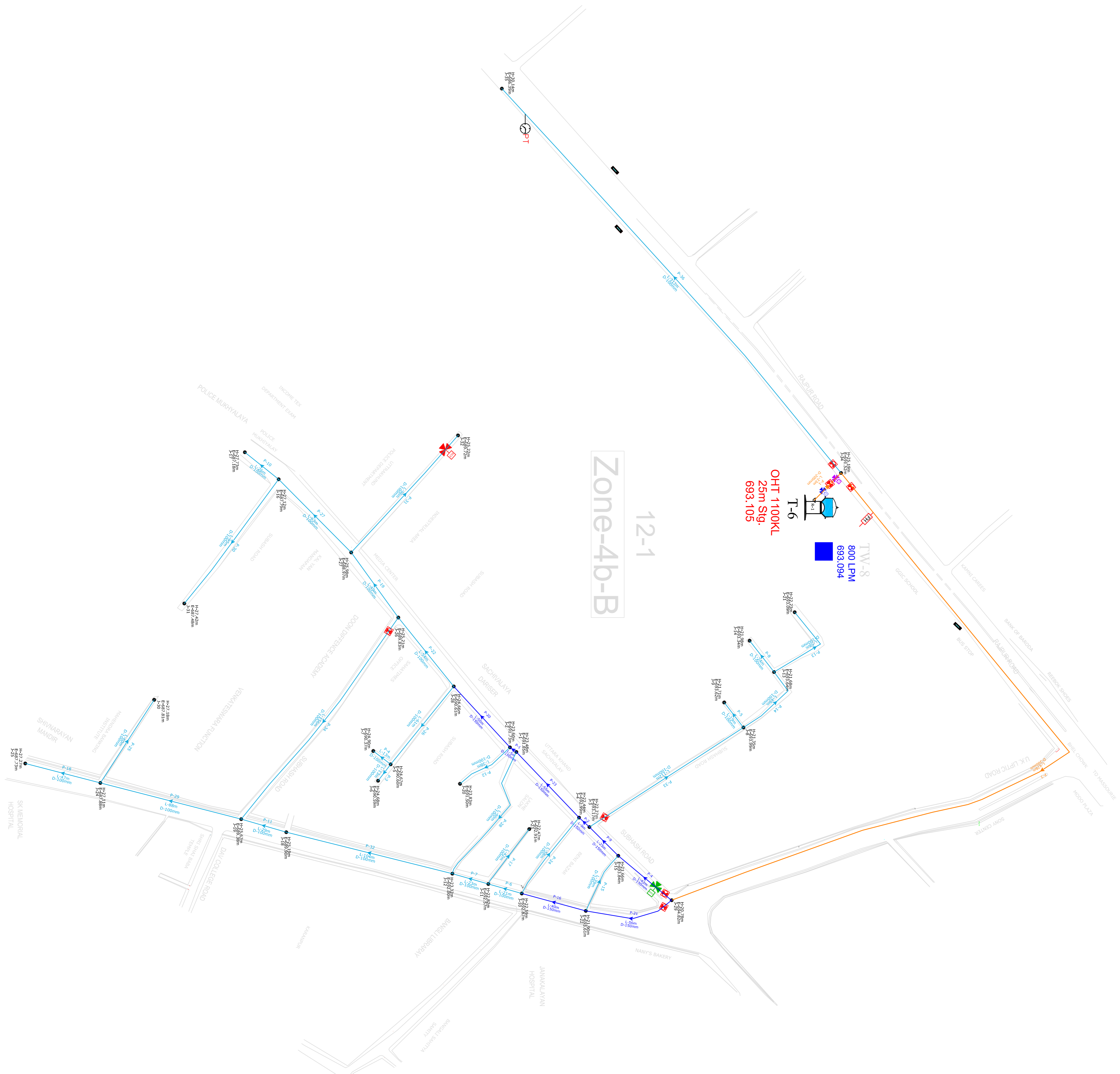
Drawing Title : **LAYOUT PLAN OF WATER SUPPLY DISTRIBUTION NETWORK (Sub Zone-4b)**

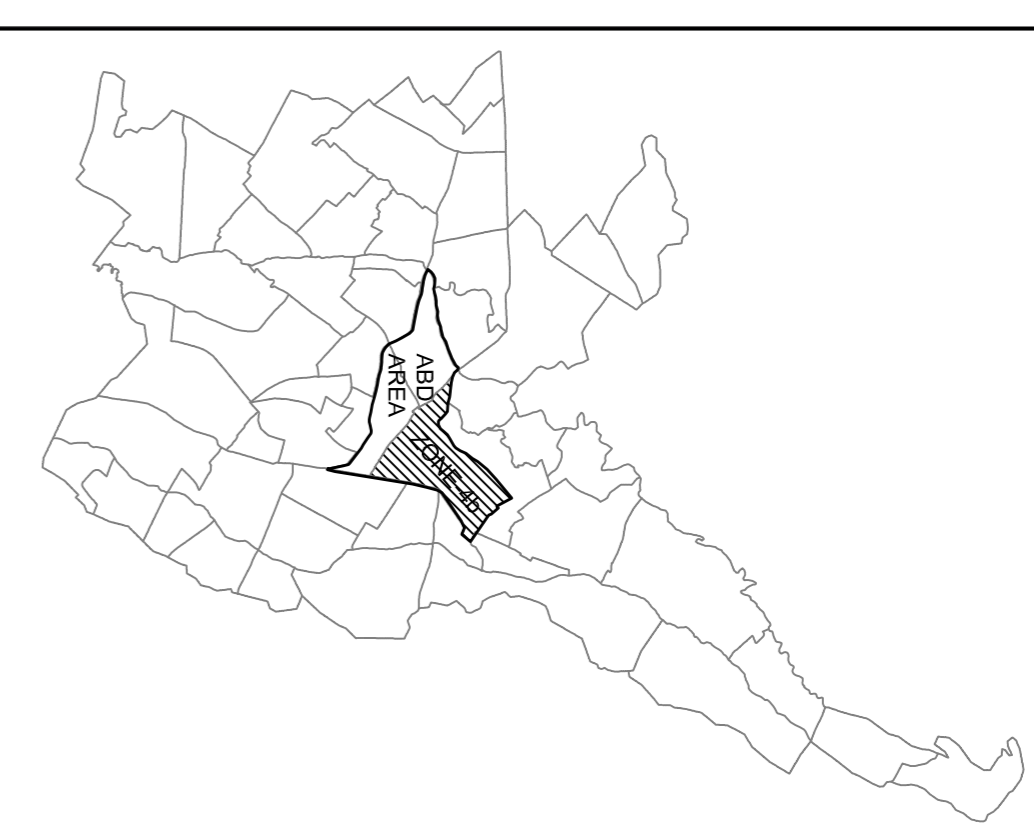
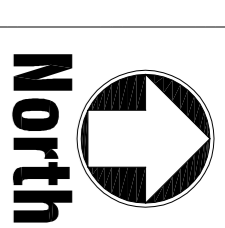
Project Management Consultant :

Drawn by : **Jagan Singh**
 Checked by : **Ravindra Kumar**
 Engg Check : **A. Kamal**
 Scale : **AS IS**
 Drawing Number : **DSCL-PMC-ASQ-REPL-WSZ4b-9/02**

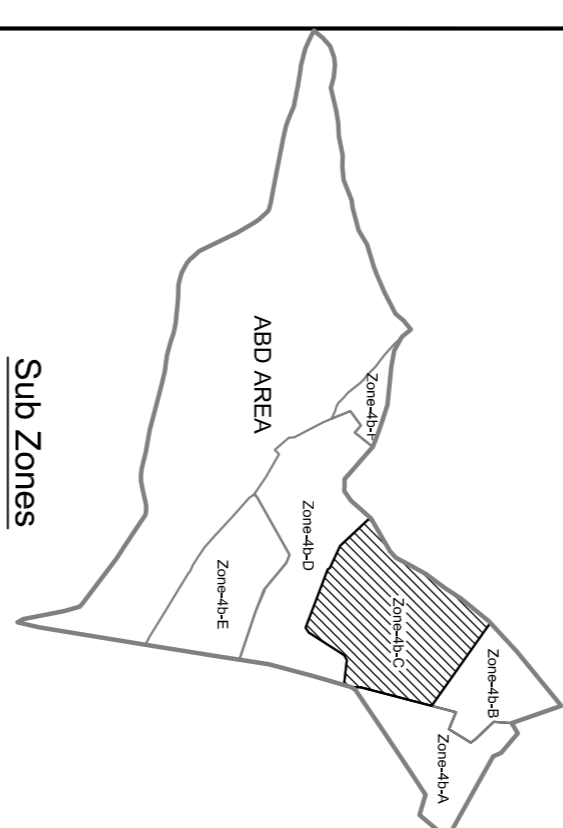
LEGEND

	OVER HEAD TANK	H-00
	SLUICE VALVE	E-00
	DISTRICT WATER METER	J-00
	BULK WATER METER	L-00
	SCOUR VALVE	D-00MM
	AIR VALVE	P-00
	FIRE HYDRANT	
	PRESSURE TRANSMITTER	
	TUBE WELL	
	PRESSURE HEAD	H-00
	GROUND ELEVATION	E-00
	PIPE JUNCTION NUMBER	J-00
	L = PIPE LENGTH	L-00
	D = PIPE DIA	D-00MM
	P = PIPE NUMBER	P-00





Key to symbols



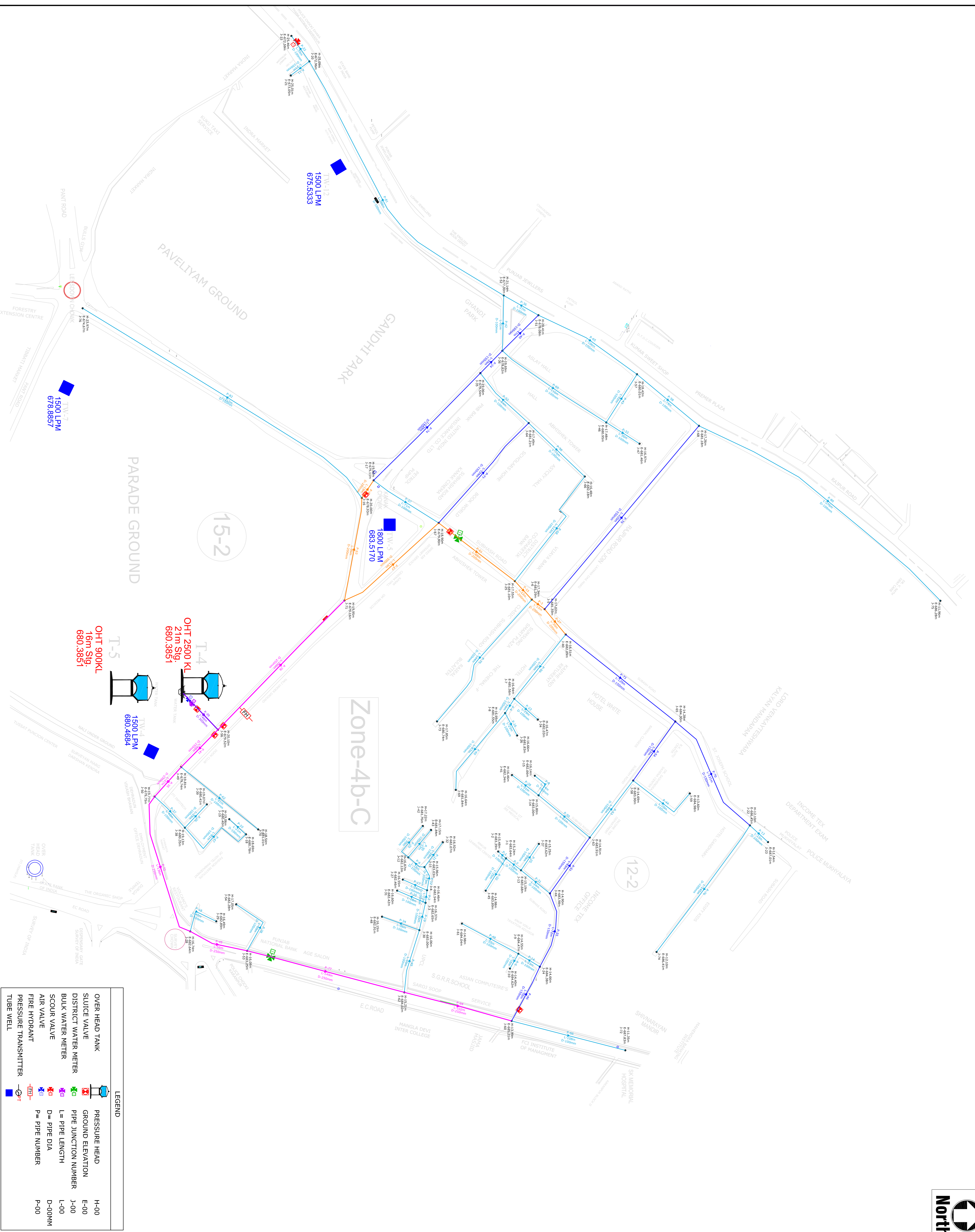
Pipe Details :-

- 100 mm dia pipe
- 150 mm dia pipe
- 200 mm dia pipe
- 250 mm dia pipe
- 300 mm dia pipe

LEGEND

Detail of Water Supply - Sub-Zone-C

Sl. No.	Pipe Size	From	To	Length (m)	Material	Description
1	150	111	112	200	UPVC	Water Main
2	150	112	113	200	UPVC	Water Main
3	150	113	114	200	UPVC	Water Main
4	150	114	115	200	UPVC	Water Main
5	150	115	116	200	UPVC	Water Main
6	150	116	117	200	UPVC	Water Main
7	150	117	118	200	UPVC	Water Main
8	150	118	119	200	UPVC	Water Main
9	150	119	120	200	UPVC	Water Main
10	150	120	121	200	UPVC	Water Main
11	150	121	122	200	UPVC	Water Main
12	150	122	123	200	UPVC	Water Main



	OVER HEAD TANK	H-00
	SLUICE VALVE	E-00
	DISTRICT WATER METER	J-00
	BULK WATER METER	L-00
	SCOUR VALVE	D-00MM
	AIR VALVE	P-00
	FIRE HYDRANT	
	PRESSURE TRANSMITTER	
	TUBE WELL	
	PRESSURE HEAD	H-00
	GROUND ELEVATION	E-00
	PIPE JUNCTION NUMBER	J-00
	PIPE LENGTH	L-00
	PIPE DIA	D-00MM
	PIPE NUMBER	P-00

Project: WATER SUPPLY OF ABD AREA OF DEHRADUN SMART CITY UNDER SMART CITY MISSION DEHRADUN

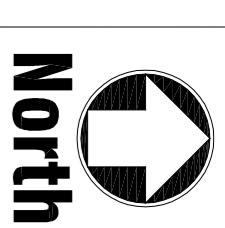
Drawing Title: LAYOUT PLAN OF WATER SUPPLY DISTRIBUTION NETWORK (Sub-Zone-4b-C)

Project Management Consultant: **aimondz** (P)VTY
 10/10, Sector-10, Dehradun
 Phone: +91 92100 20000
 Website: www.aimondz.com

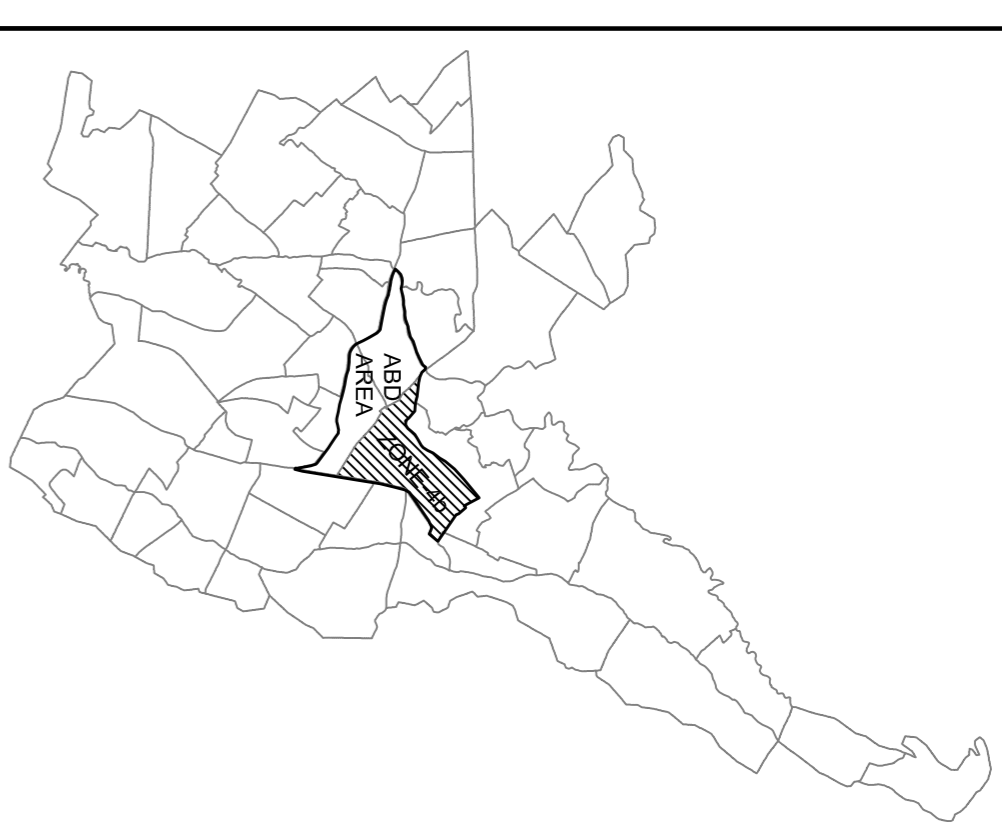
Client: **DEHRADUN SMART CITY LIMITED**

Drawn By: Jagan Singh
 Engg Check: A. Kamini
 Scale: 1:1000

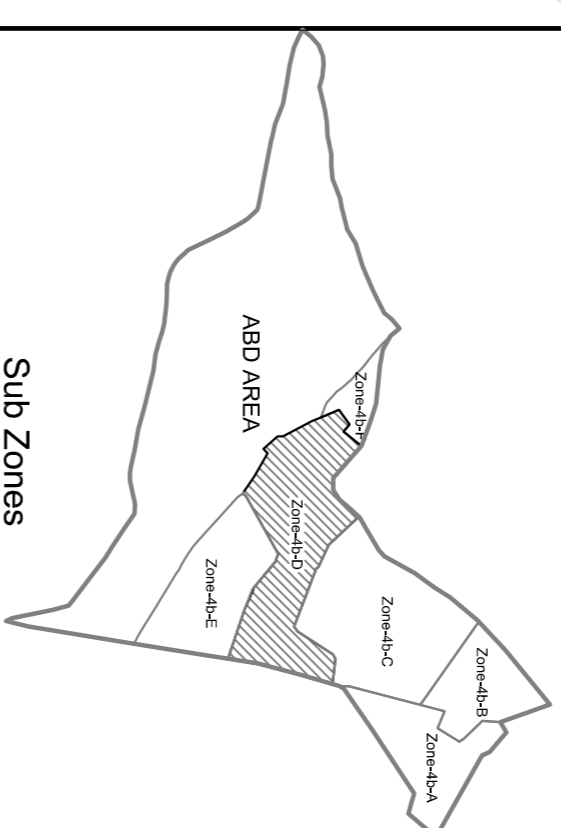
Checked By: Ravindra Kumar
 Recommended: Small Kumar
 Date: 05/05/2019
 Drawing Number: DSCL-PMC-AGSL-REPL-MSZ4b-C/03



North



Key to symbols



Sub Zones

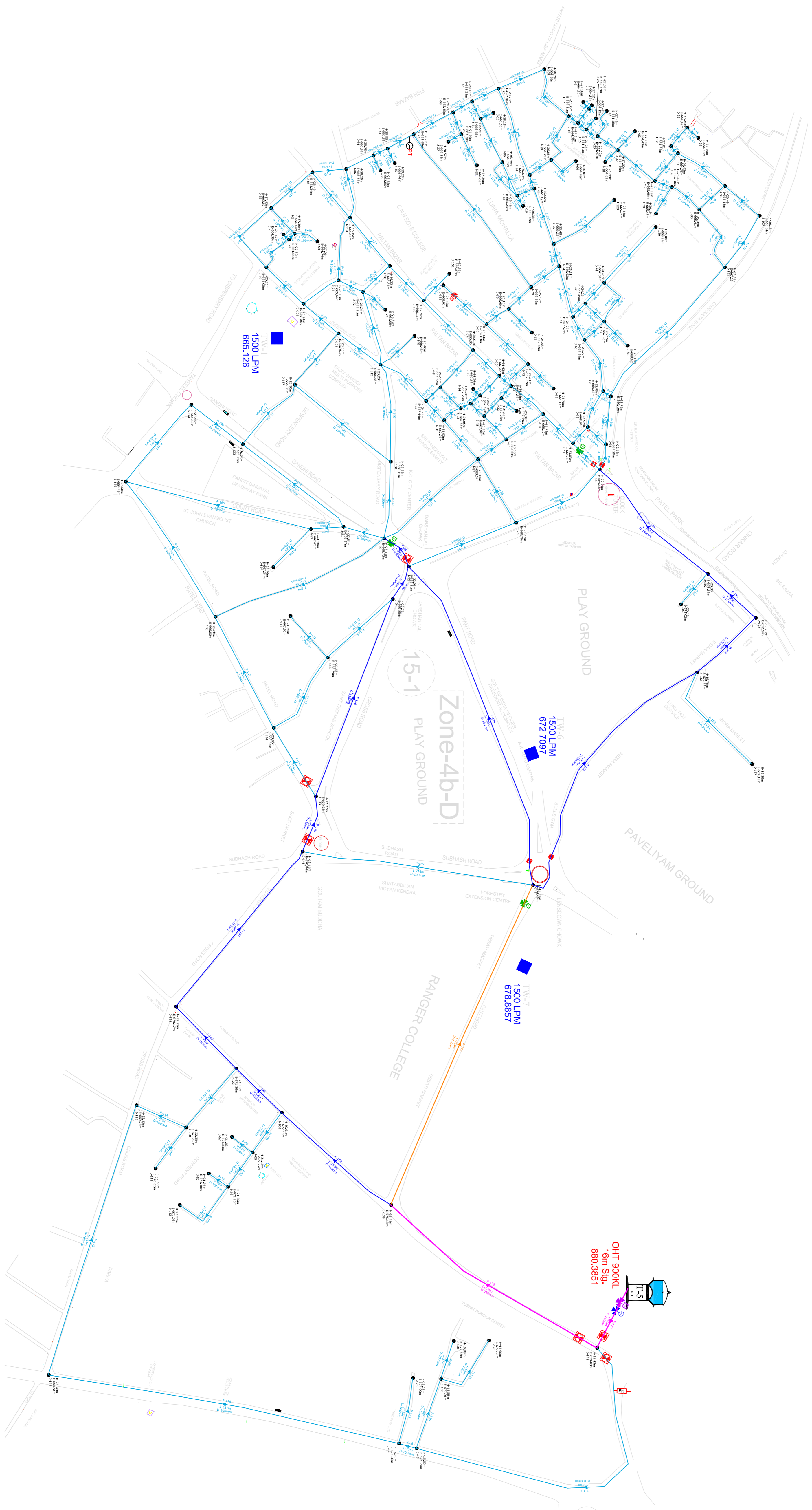
Pipe Details :-

100 mm dia pipe	150 mm dia pipe	200 mm dia pipe	250 mm dia pipe
(Blue line)	(Green line)	(Orange line)	(Purple line)

LEGEND

Detail of Water Zone-4b (Sub Zone-D)

S/N	No	Pipe No	From Node	To Node	Type of Valve	Pipe dia (mm)	Length (m)	Flow	Zone	Description
1	1	1	11	11	80MM	50	250			Blank Water Meter
2	2	2	11	11	50	250				Blank Water Meter
3	3	3	11	11	50	250				Blank Water Meter
4	4	4	11	11	50	250				Blank Water Meter
5	5	5	11	11	50	250				Blank Water Meter
6	6	6	11	11	50	250				Blank Water Meter
7	7	7	11	11	50	250				Blank Water Meter
8	8	8	11	11	50	250				Blank Water Meter
9	9	9	11	11	50	250				Blank Water Meter
10	10	10	11	11	50	250				Blank Water Meter
11	11	11	11	11	50	250				Blank Water Meter
12	12	12	11	11	50	250				Blank Water Meter
13	13	13	11	11	50	250				Blank Water Meter
14	14	14	11	11	50	250				Blank Water Meter
15	15	15	11	11	50	250				Blank Water Meter
16	16	16	11	11	50	250				Blank Water Meter
17	17	17	11	11	50	250				Blank Water Meter
18	18	18	11	11	50	250				Blank Water Meter



LEGEND

OVER HEAD TANK	PRESSURE HEAD	H-00
SLUICE VALVE	GROUND ELEVATION	E-00
DISTRICT WATER METER	PIPE JUNCTION NUMBER	J-00
BULK WATER METER	L= PIPE LENGTH	L-00
SCOUR VALVE	D= PIPE DIA	D-00MM
AIR VALVE	P= PIPE NUMBER	P-00
FIRE HYDRANT		
PRESSURE TRANSMITTER		
TUBE WELL		

Project: WATER SUPPLY OF ABD AREA OF DEHRADUN SMART CITY UNDER SMART CITY MISSION DEHRADUN

Drawing Title: LAYOUT PLAN OF WATER SUPPLY DISTRIBUTION NETWORK (Sub Zone-4b-D)

Project Management Consultant: **almondz** (A/S) SO 9001:2008 (Certified Company) F-14311, Mahila Industrial Area, Phase-01, Sector-06, Dehradun (Uttarakhand)

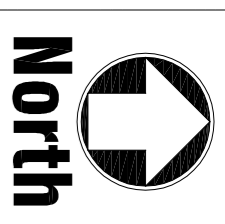
Client: **DEHRADUN SMART CITY LIMITED**

Drawn By: **Jyoti Singh**

Checked By: **Ravindra Kumar**

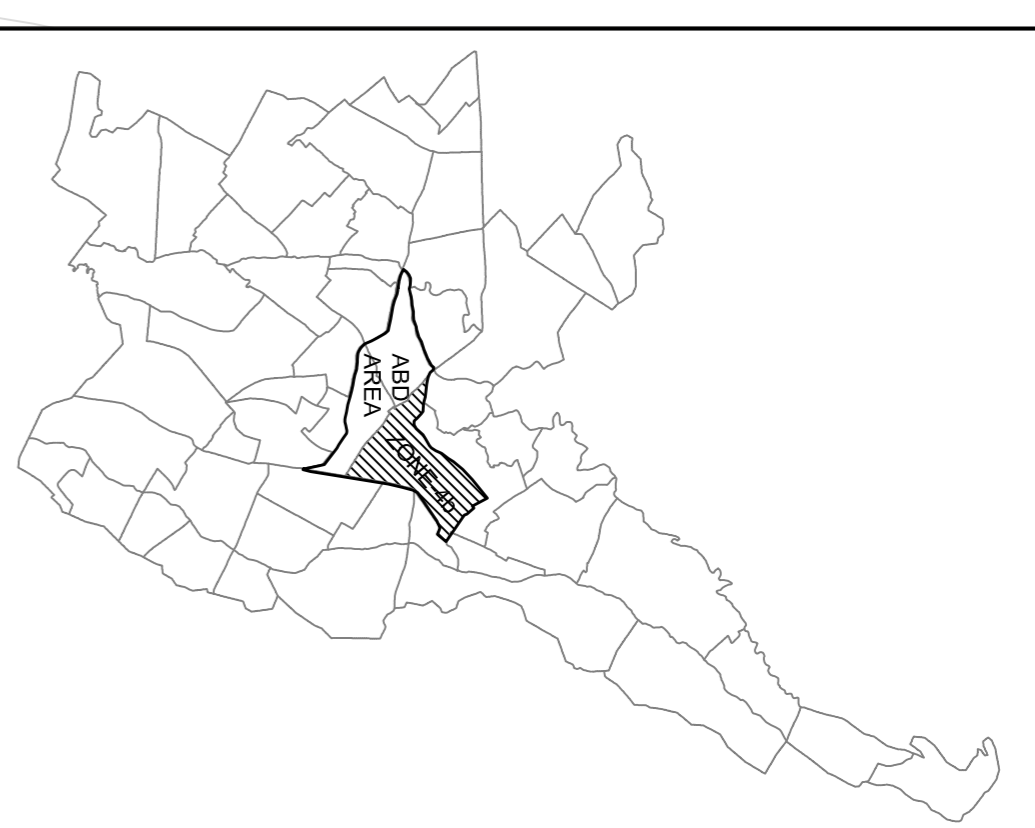
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Drawing Number: **DSCL-PMC-ASL-REPL-WSZ4b-D/04**

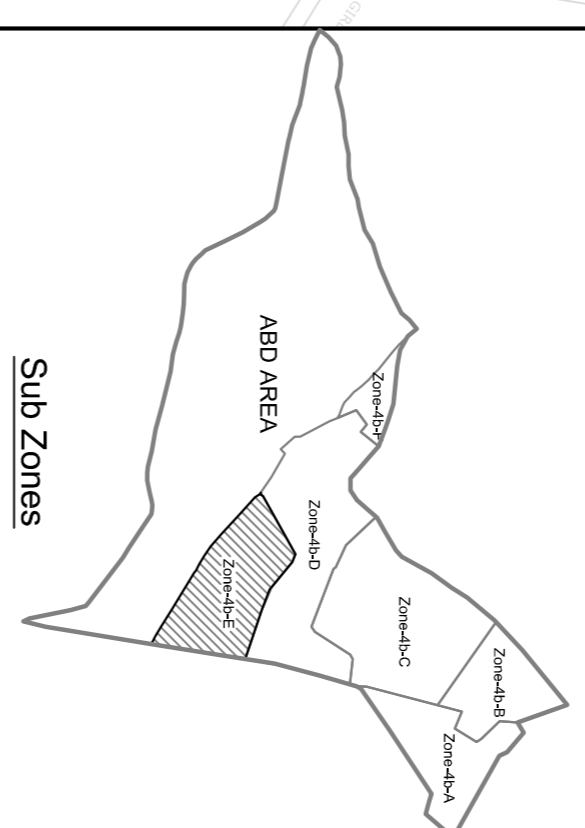


North

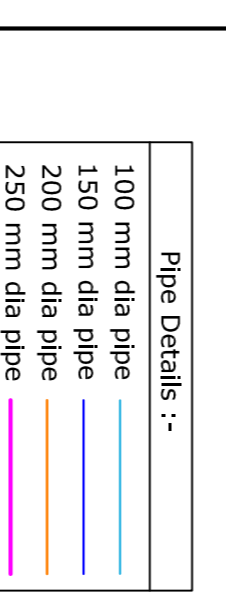
Key Plan



Key to symbols



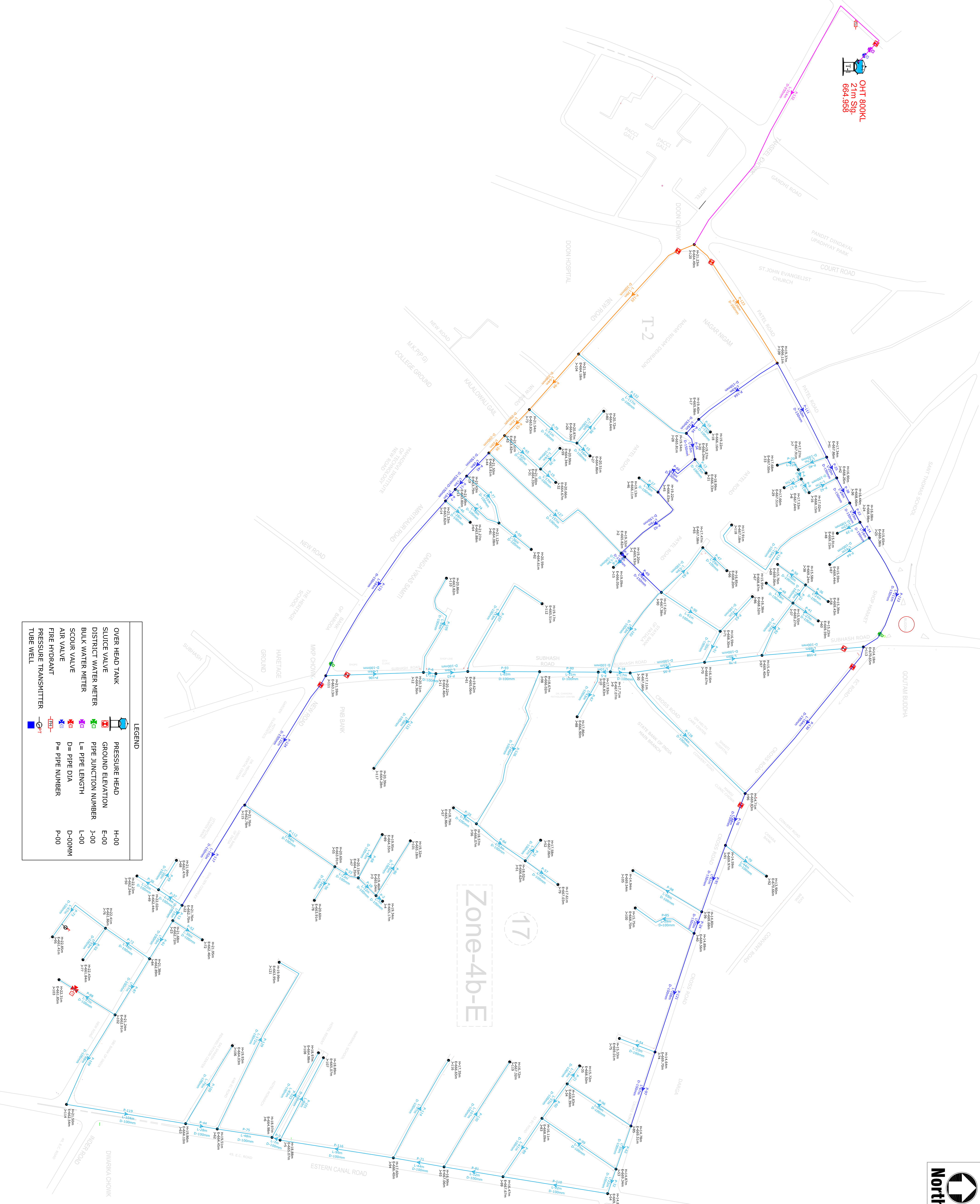
Sub Zones



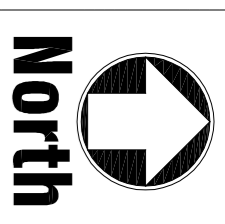
LEGEND

Sl No	Pipe No	From Node	To Node	Type of Valve	Size of Pipe (mm)	Material	Description
1	F122	71	1220	OROV	250	FRP	Water Mains
2	F123	71	1220	OROV	250	FRP	Water Mains
3	F124	71	1220	OROV	250	FRP	Water Mains
4	F125	71	1220	OROV	250	FRP	Water Mains
5	F126	71	1220	OROV	250	FRP	Water Mains
6	F127	71	1220	OROV	250	FRP	Water Mains
7	F128	71	1220	OROV	250	FRP	Water Mains
8	F129	71	1220	OROV	250	FRP	Water Mains
9	F130	71	1220	OROV	250	FRP	Water Mains
10	F131	71	1220	OROV	250	FRP	Water Mains
11	F132	71	1220	OROV	250	FRP	Water Mains
12	F133	71	1220	OROV	250	FRP	Water Mains
13	F134	71	1220	OROV	250	FRP	Water Mains
14	F135	71	1220	OROV	250	FRP	Water Mains

RO	May-2019	For DPR	
Rev	001	Description	Remarks
Client : DEHRADUN SMART CITY LIMITED			
Project : WATER SUPPLY OF ABD AREA OF DEHRADUN SMART CITY UNDER SMART CITY MISSION DEHRADUN			
Drawing Title : LAYOUT PLAN OF WATER SUPPLY DISTRIBUTION NETWORK (Sub Zone-4b-E)			
Project Management Consultant : almondz REPI JMC			
Drawn By :	Jyoti Singh	Checked By :	Ravindra Kumar
Engg. Check :	A. Kumbh	Recommended :	Sonal Kumar
Scale :	1:1	Stamp :	DRP
Drawing Number :	DSCL-PMC-ASL-REPI-MSZ4b-E/5		



LEGEND	
	OVER HEAD TANK
	SLUICE VALVE
	DISTRICT WATER METER
	BULK WATER METER
	SCOUR VALVE
	AIR VALVE
	FIRE HYDRANT
	PRESSURE TRANSMITTER
	TUBE WELL
	PRESSURE HEAD
	GROUND ELEVATION
	PIPE JUNCTION NUMBER
	L= PIPE LENGTH
	D= PIPE DIA
	P= PIPE NUMBER
	H-00
	E-00
	J-00
	L-00
	D-00MM
	P-00

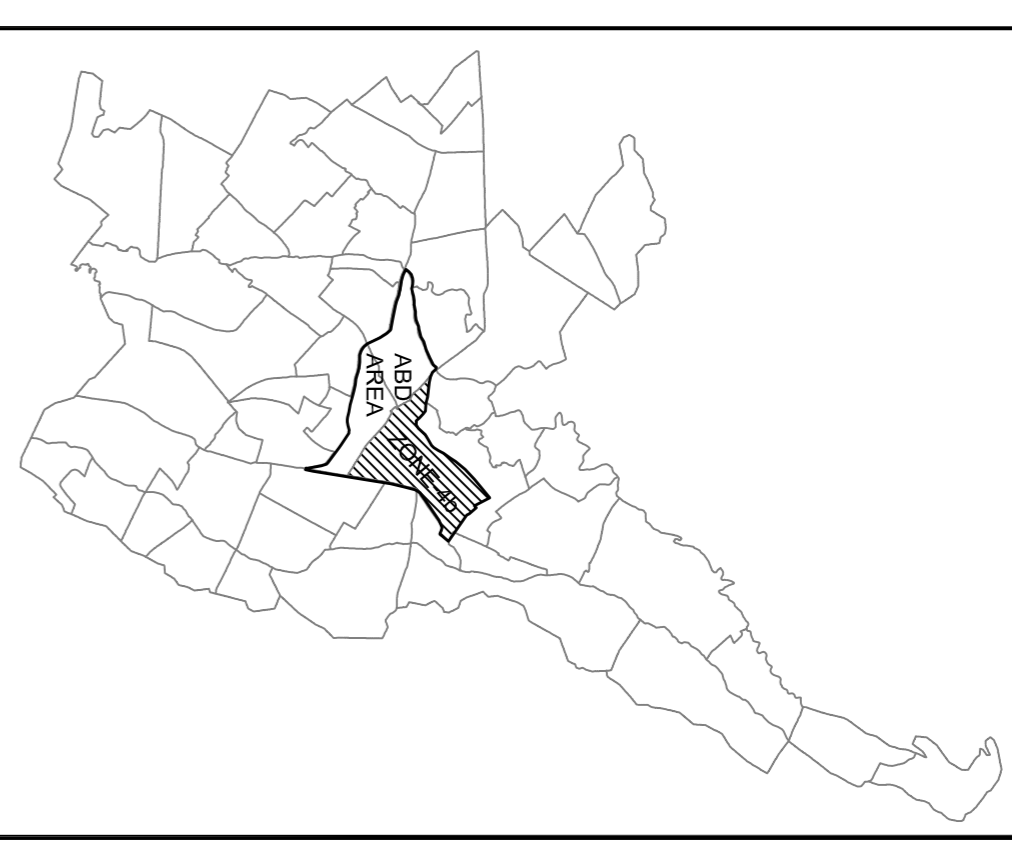


North

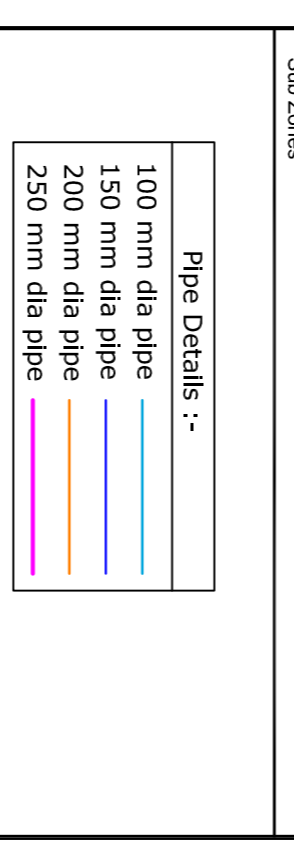
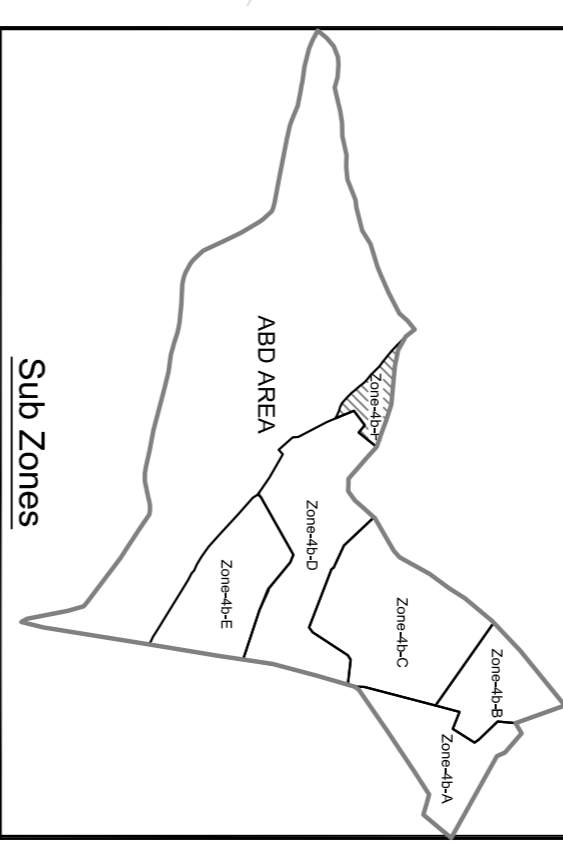
Notes

ABD Area based Development

Key Plan



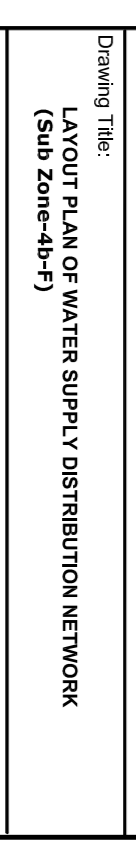
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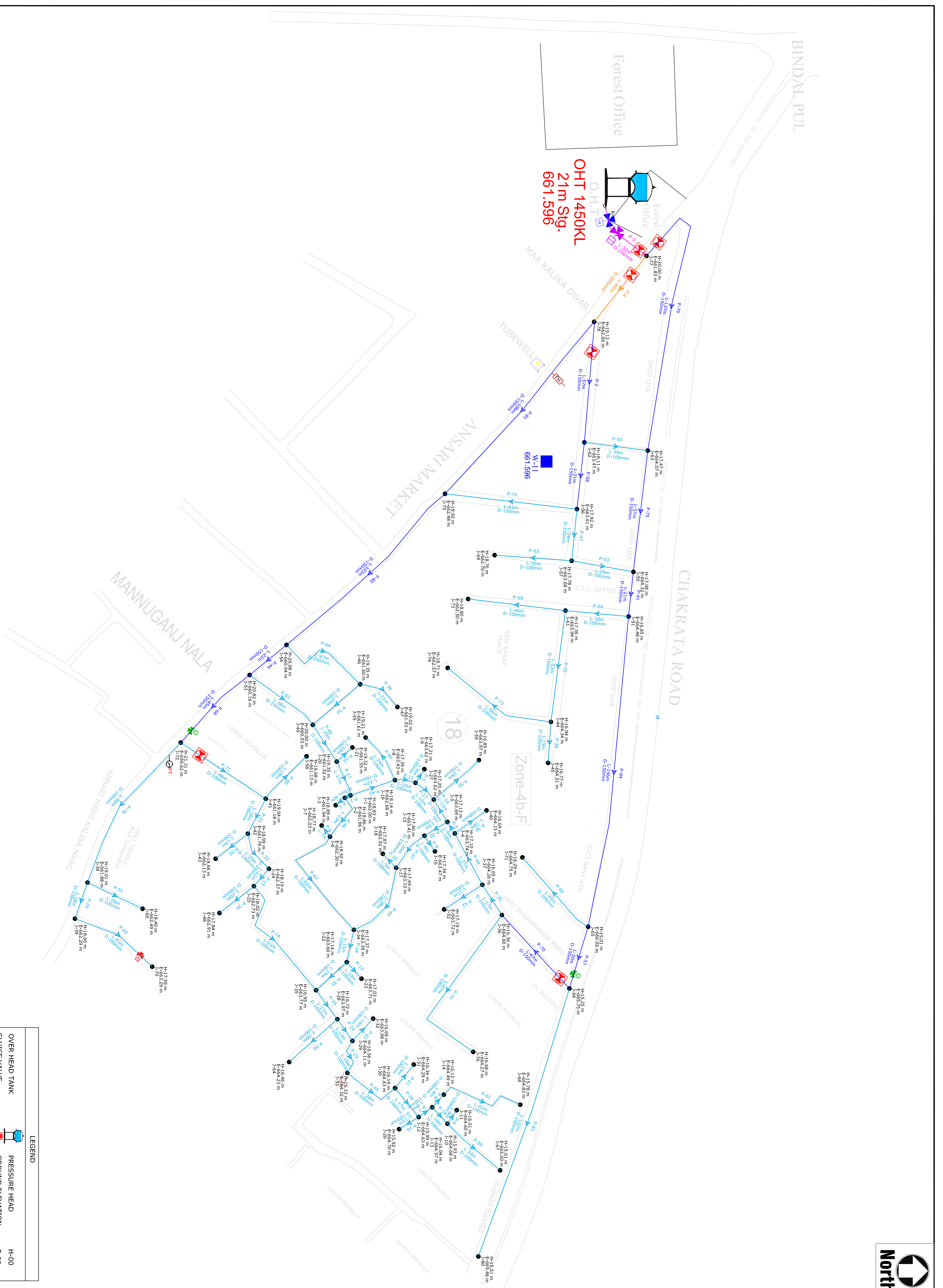
Sl No	Pipe No	from Node to Node	Type of Valve	Pipe Length (m)	Zone	Description
1	101	61	177	1000	Zone-4b	SHARDA MANDIR
2	102	61	177	500	Zone-4b	SHARDA MANDIR
3	103	61	177	500	Zone-4b	SHARDA MANDIR
4	104	177	178	500	Zone-4b	SHARDA MANDIR
5	105	177	178	500	Zone-4b	SHARDA MANDIR
6	106	177	178	500	Zone-4b	SHARDA MANDIR
7	107	178	179	500	Zone-4b	SHARDA MANDIR
8	108	178	179	500	Zone-4b	SHARDA MANDIR
9	109	178	179	500	Zone-4b	SHARDA MANDIR
10	110	179	180	500	Zone-4b	SHARDA MANDIR
11	111	179	180	500	Zone-4b	SHARDA MANDIR
12	112	179	180	500	Zone-4b	SHARDA MANDIR
13	113	180	181	500	Zone-4b	SHARDA MANDIR
14	114	180	181	500	Zone-4b	SHARDA MANDIR
15	115	180	181	500	Zone-4b	SHARDA MANDIR

LEGEND

RO	May/2019	For DPR	
Revised Date		Description	Remarks
Client	DEHRADUN SMART CITY LIMITED		
Project	WATER SUPPLY OF ABD AREA OF DEHRADUN SMART CITY UNDER SMART CITY MISSION DEHRADUN		
Drawing Title	LAYOUT PLAN OF WATER SUPPLY DISTRIBUTION NETWORK (Sub Zone-4b-F)		
Project Management Consultant	almondz REPEL JMC		
Drawn By	Jyoti Singh	Checked By	Ravindra Kumar
Engg. Check	Iv Kumbal	Recommended	Saikat Kumar
Scale		Sheet	DRS
Drawing Number	DSCL-PMC-AGSL-REPL-MSZ4b-F106		

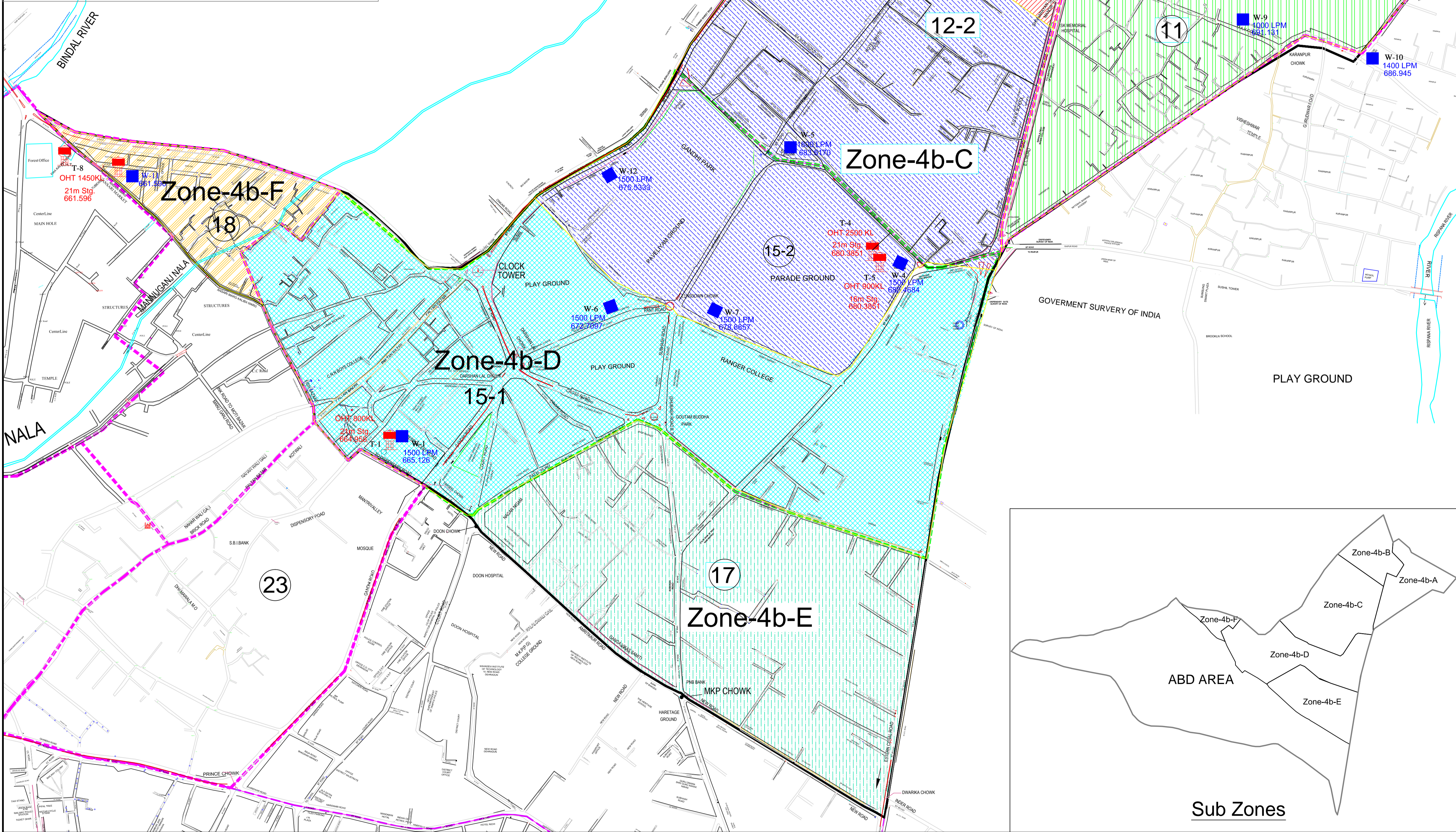
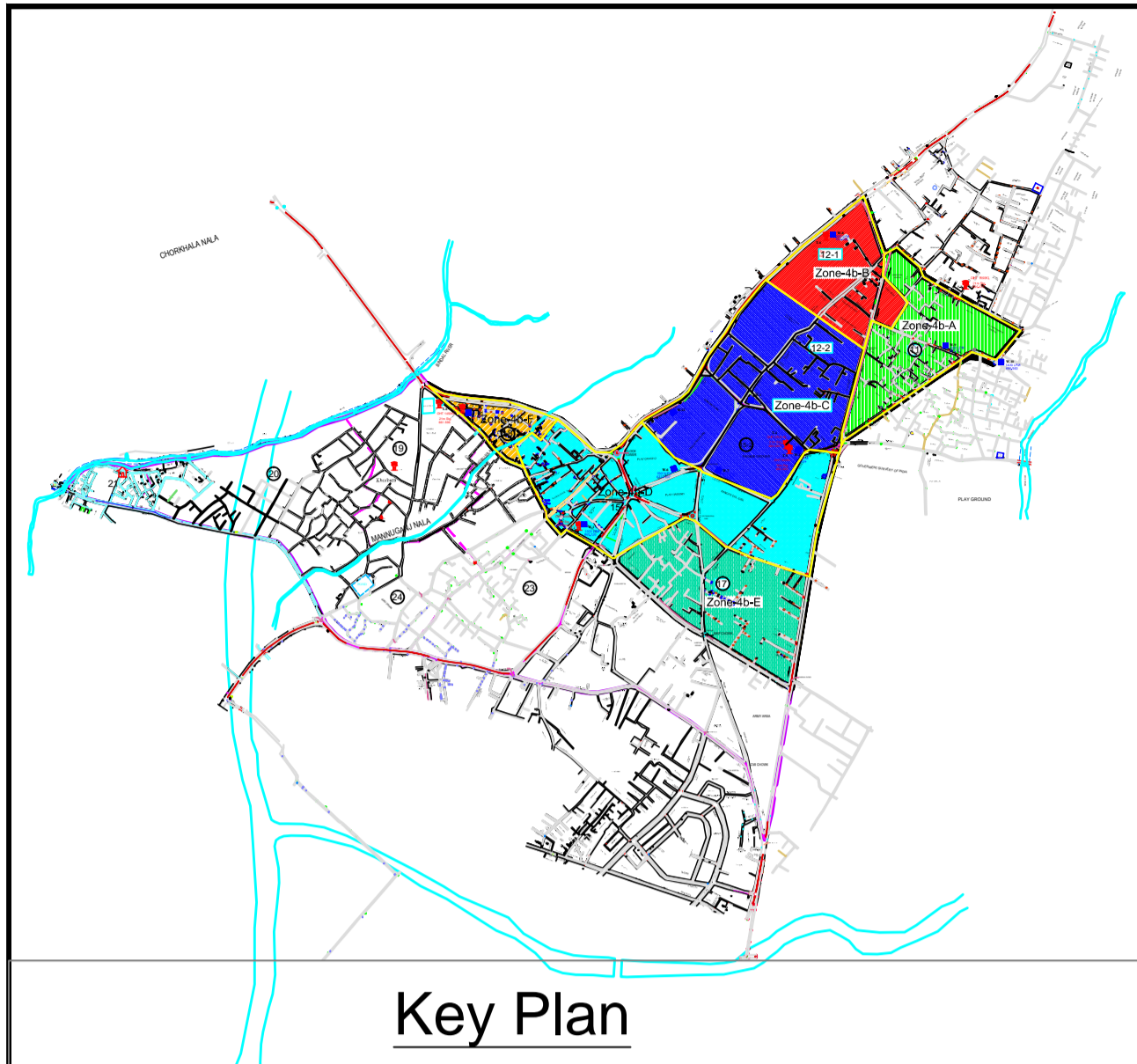


Project Management Consultant:
almondz REPEL JMC
Address: 1110, Ashoka Estate,
Sector-10, Dehradun, Uttarakhand
Phone: 91 9220222222
Website: www.almondz.com

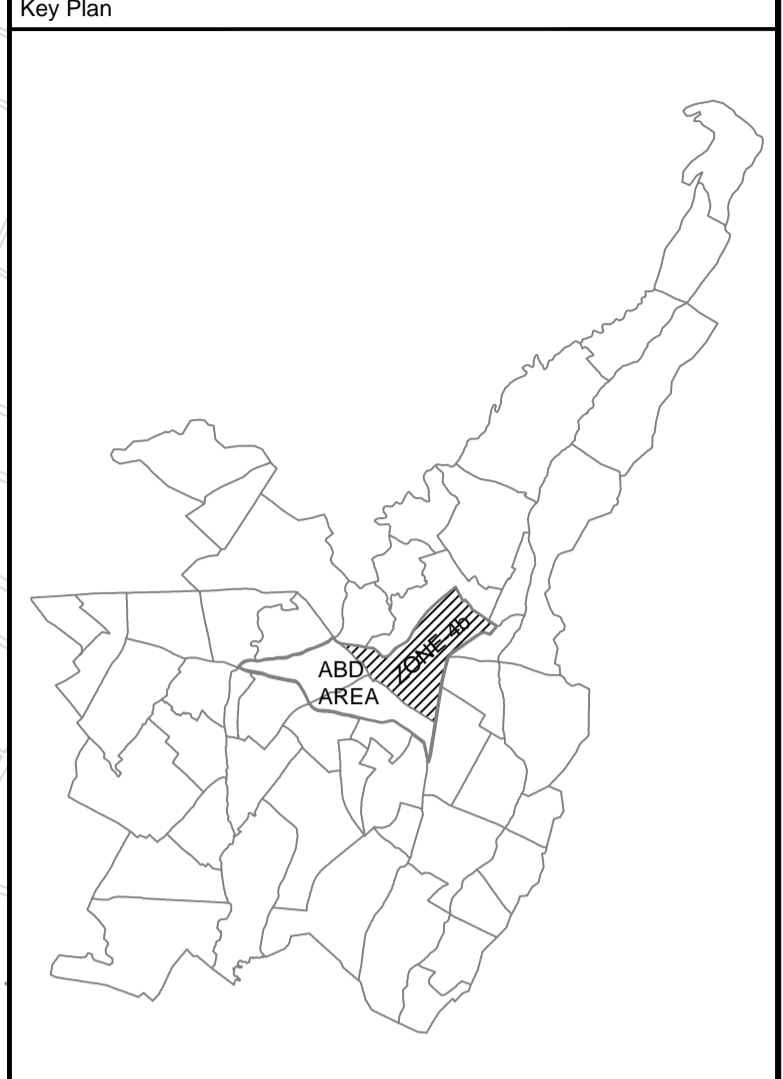


OVER HEAD TANK
SLUICE VALVE
DISTRICT WATER METER
BULK WATER METER
SCOUR VALVE
AIR VALVE
FIRE HYDRANT
PRESSURE TRANSMITTER
TUBE WELL

LEGEND
PRESSURE HEAD H-00
GROUND ELEVATION E-00
PIPE JUNCTION NUMBER J-00
PIPE LENGTH L-00
PIPE DIA D-00MM
PIPE NUMBER P-00



Notes
ABD -Area base Development

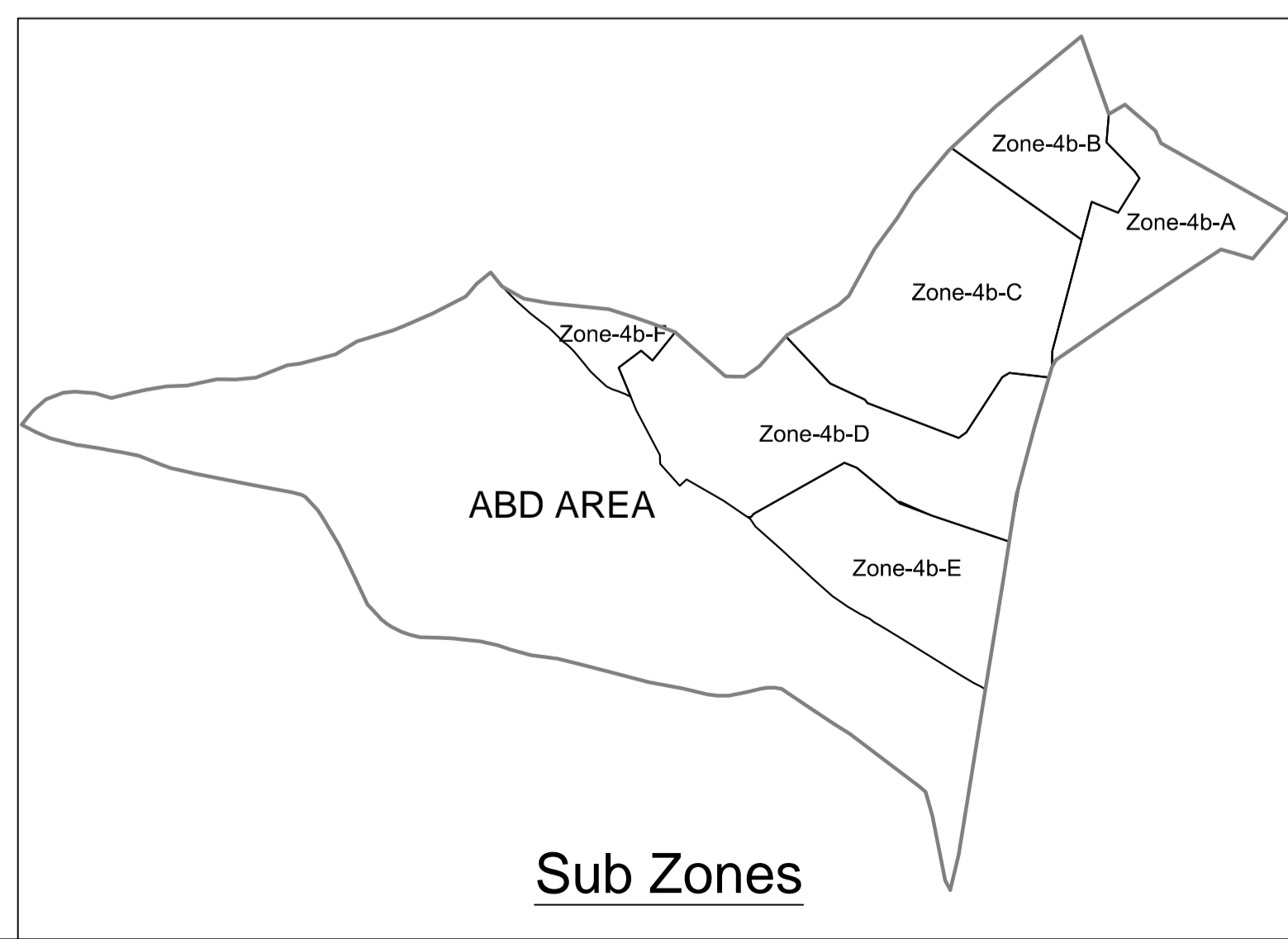


Key to symbols

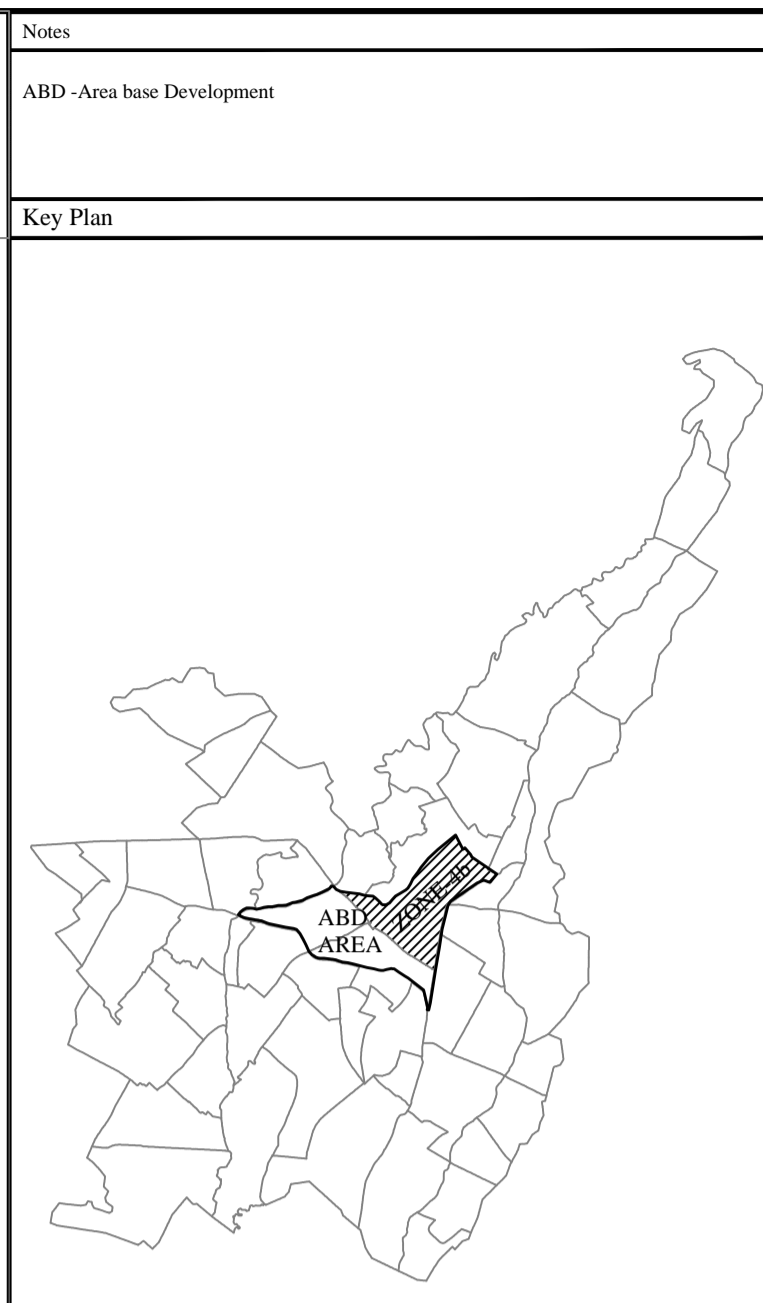
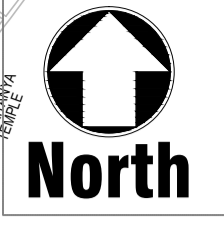
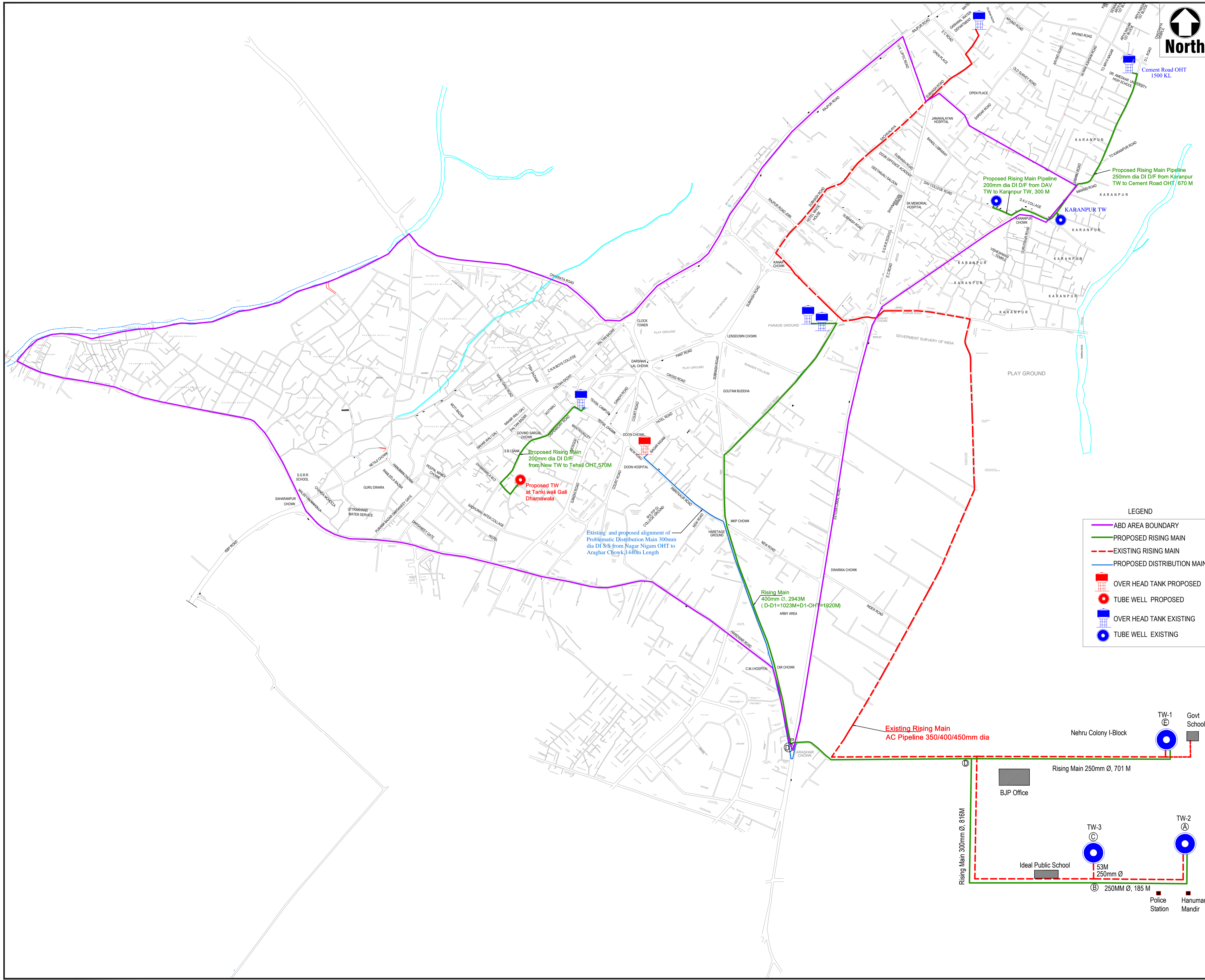
Sub Zones

- ZONE-4b-A
- ZONE-4b-B
- ZONE-4b-C
- ZONE-4b-D
- ZONE-4b-E
- ZONE-4b-F
- EXISTING TUBEWELL
- EXISTING OHT,S

LEGEND



RD	May-2019	For DPR	
Rev	Date	Description	Remark
Client : DEHRADUN SMART CITY LIMITED			
Project: WATER SUPPLY OF ABD AREA OF DEHRADUN SMART CITY UNDER SMART CITY MISSION DEHRADUN			
Drawing Title: SUB ZONE PLAN OF WATER SUPPLY DISTRIBUTION NETWORK (Sub Zone-4b)			
Project Management Consultant:			
almondz <small>Corporate & Registered Office F-23/1 Okhla Industrial Area Phase-II, New Delhi-110029 INDIA-91-11-4308766-8899 99-41-4150073</small>		REPL <small>Refrigeration & Airconditioning Pvt. Ltd. A-2, Sector-29, Gurgaon Phone: +91 120 4022129 Fax: +91 120 4022161 Website: www.replindia.com</small>	
JLL <small>Address: 1110, Anika Estate, Barakhamba Road, Connaught Place, New Delhi, Delhi 110001</small>			
Drawn by:	Jaipal Singh	Checked by:	Ravindra Kumar
Engg Check:	A.Kamboj	Recommended:	Sunil Kumar
Scale :		Status:	DPR
Rev:		Rev:	
Drawing Number: DSCL-PMC-AGSL-REPL-WS/Z4b-01			



Key to symbols

	ABD AREA BOUNDARY
	PROPOSED RISING MAIN
	EXISTING RISING MAIN
	PROPOSED DISTRIBUTION MAIN
	OVER HEAD TANK PROPOSED
	TUBE WELL PROPOSED
	OVER HEAD TANK EXISTING
	TUBE WELL EXISTING

LEGEND

	ABD AREA BOUNDARY
	PROPOSED RISING MAIN
	EXISTING RISING MAIN
	PROPOSED DISTRIBUTION MAIN
	OVER HEAD TANK PROPOSED
	TUBE WELL PROPOSED
	OVER HEAD TANK EXISTING
	TUBE WELL EXISTING

LEGEND

RD	May-2019	For DPR	
Rev	Date	Description	Remark
Client : DEHRADUN SMART CITY LIMITED			
Project : WATER SUPPLY OF ABD AREA OF DEHRADUN SMART CITY UNDER SMART CITY MISSION DEHRADUN			
Drawing Title : LAYOUT PLAN OF PROPOSED TUBE WELL, OVER HEAD TANK, RISING MAINS & DISTRIBUTION MAIN UNDER ABD AREA			
Project Management Consultant :			
Corporate / Registered Office F-3/37 Okhla Industrial Area Phase-II, New Delhi-110029 Phone: +91 11 4358766-800 INDIA +91-11-4358766-800 +91-11-4358767	Dehradun/India Kariprasta Ltd. (An ISO 9001:2008 Certified Company) A-2, Sector-28, Sub-sect. 1, P.O. 201301 Phone: +91 120 4822129 Fax: +91 120 4822361 Website: www.dehradunsmartcity.com	Address: 1110, Ashoka Estate, Banshikumbha Road, Connaught Place, New Delhi, Delhi 110001	
Drawn by: Jaipal Singh	Checked by: Ravindra Kumar		
Engg Check: A.Kamboj	Recommended: Sunil Kumar		
Scale :	Status: DPR	Rev:	
Drawing No: DSCL-PMC-AGSL-REPL-WS/ABD/RM & DM-G-01			